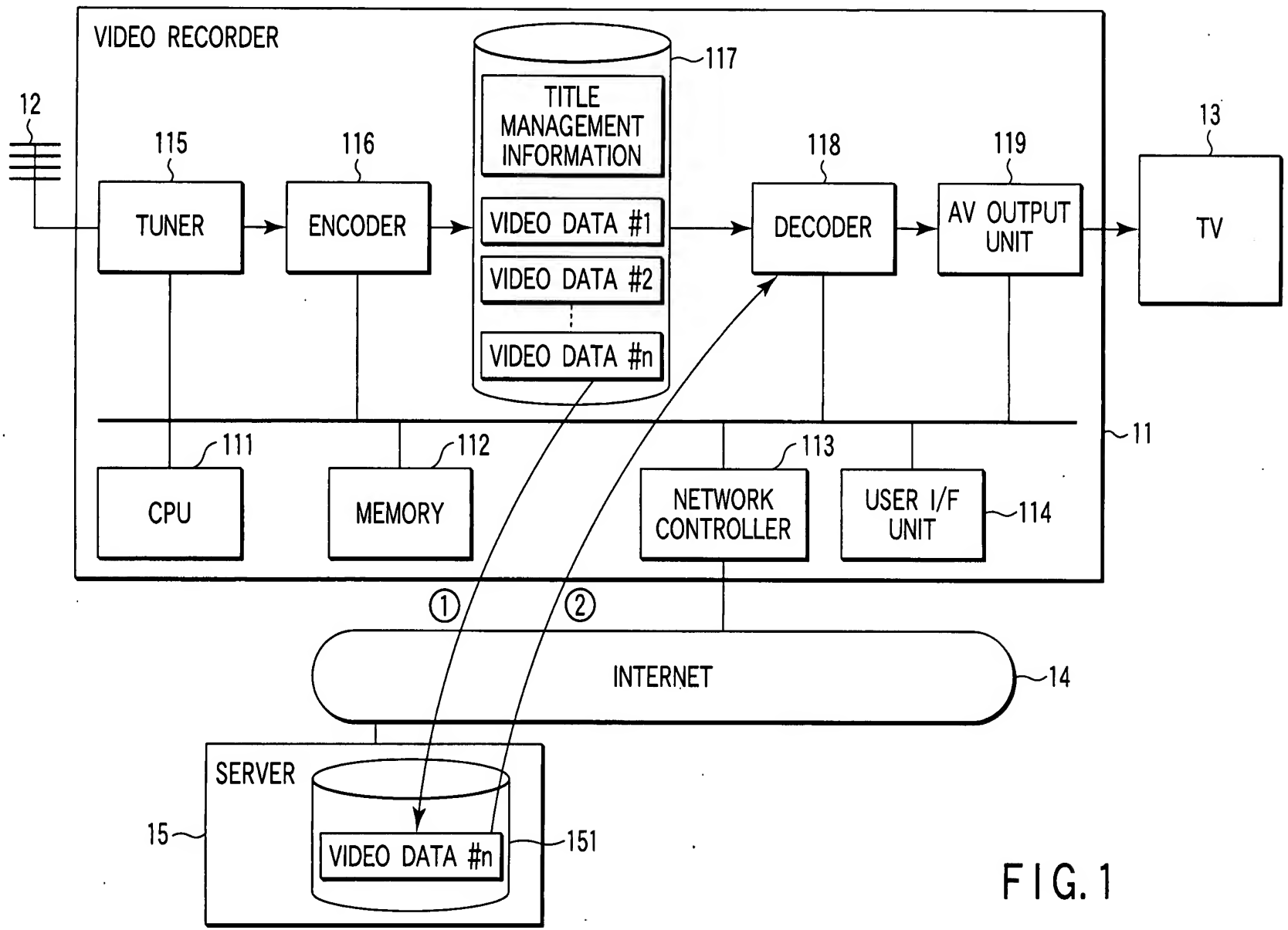

VIDEO RECORDER
12
115
TUNER
116
ENCODER
117
TITLE MANAGEMENT INFORMATION
VIDEO DATA #1
VIDEO DATA #2
VIDEO DATA #n
118
DECODER
119
AV OUTPUT UNIT
13
TV
11
111
CPU
112
MEMORY
113
NETWORK CONTROLLER
USER I/F UNIT
114
①
②
INTERNET
14
SERVER
15
VIDEO DATA #n
151

FIG. 1

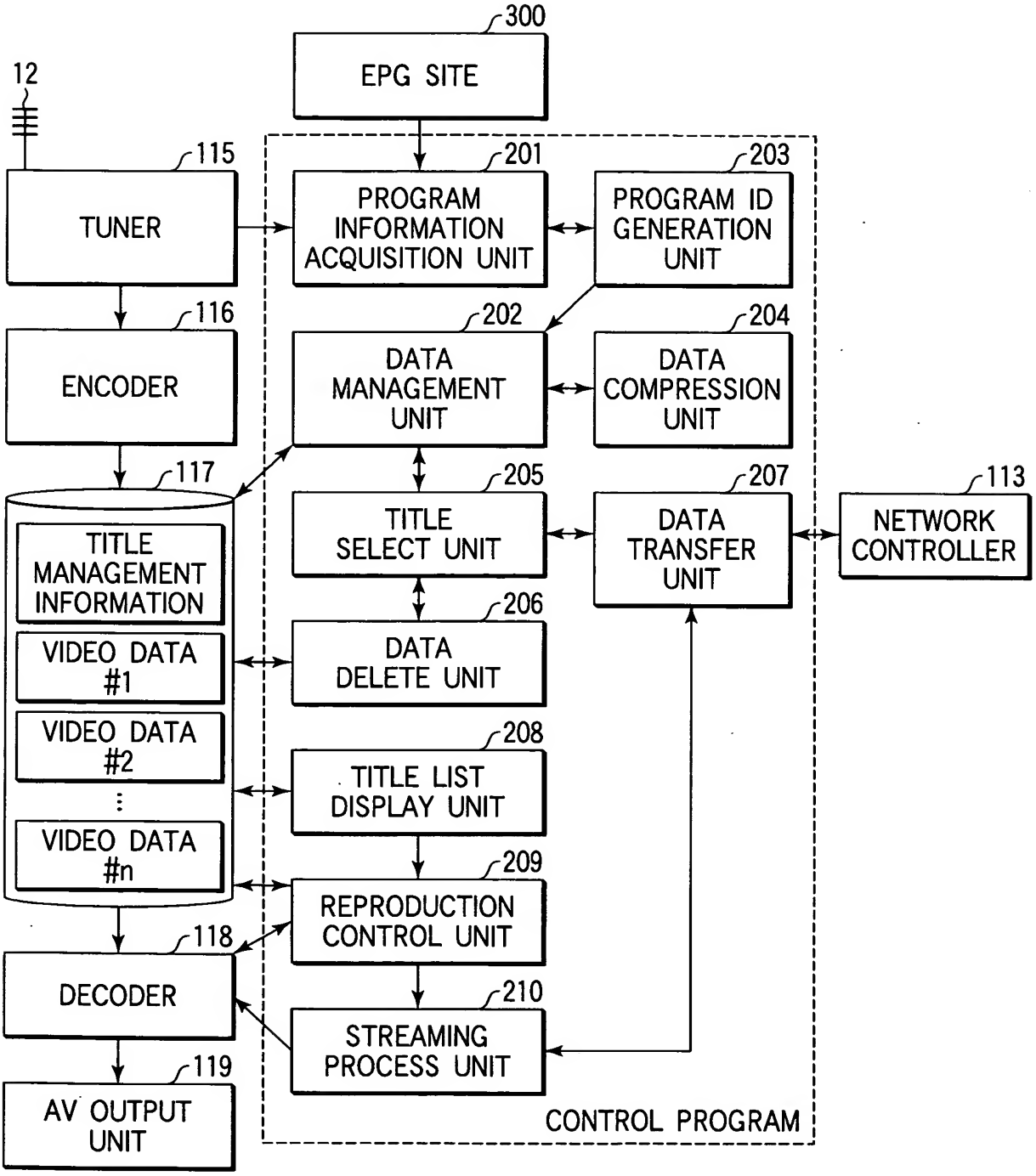

300
EPG SITE
12
115
TUNER
201
PROGRAM INFORMATION ACQUISITION UNIT
203
PROGRAM ID GENERATION UNIT
116
ENCODER
202
DATA MANAGEMENT UNIT
204
DATA COMPRESSION UNIT
117
TITLE MANAGEMENT INFORMATION
VIDEO DATA #1
VIDEO DATA #2
VIDEO DATA #n
205
TITLE SELECT UNIT
207
DATA TRANSFER UNIT
113
NETWORK CONTROLLER
206
DATA DELETE UNIT
208
TITLE LIST DISPLAY UNIT
209
REPRODUCTION CONTROL UNIT
118
DECODER
210
STREAMING PROCESS UNIT
119
AV OUTPUT UNIT
CONTROL PROGRAM

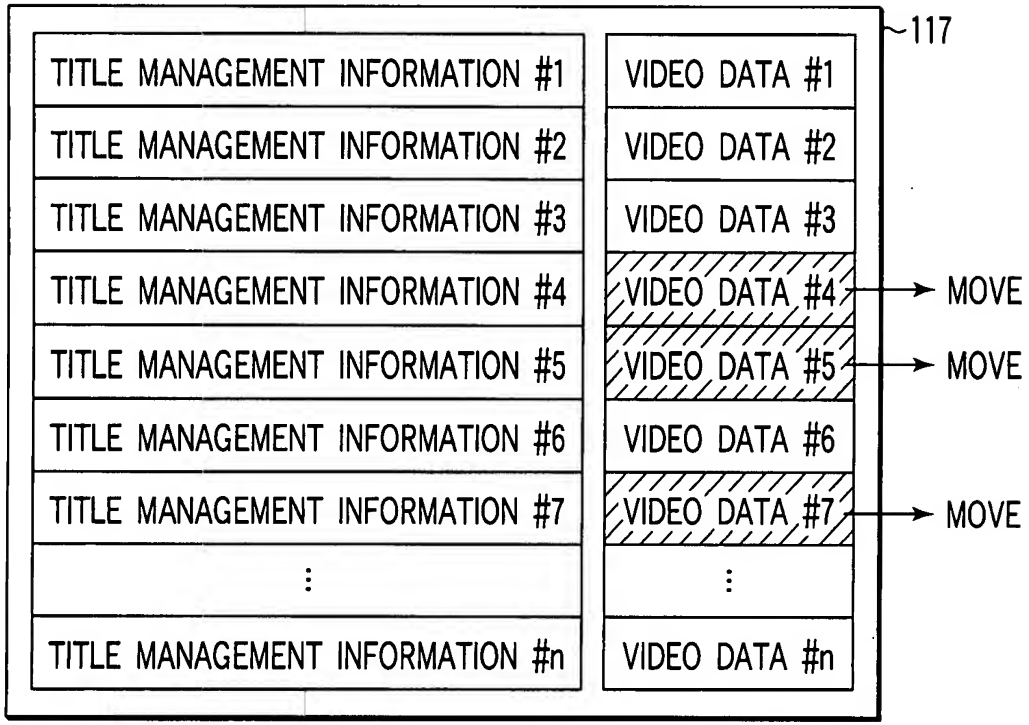
FIG. 2

FIG. 3

TITLE MANAGEMENT INFORMATION

	PROGRAM ID	TITLE	CHANNEL NO.	GENRE	RECORDING DATE/TIME	LENGTH	PLAY HISTORY	OTHERS	ADDRESS	MOVE	BACKUP
#1											
#2											
#3											
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
#n											

FIG. 4



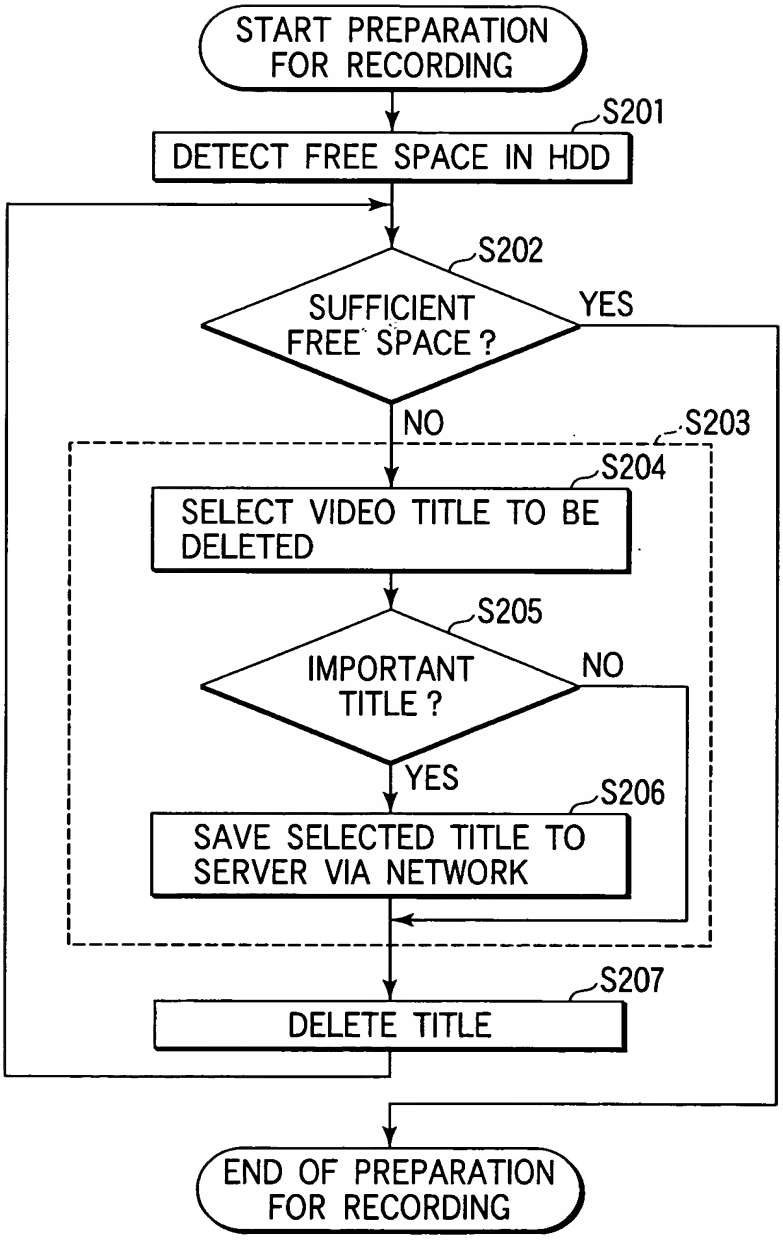

START PREPARATION FOR RECORDING
S201
DETECT FREE SPACE IN HDD
S202
SUFFICIENT FREE SPACE ?
YES
NO
S203
S204
SELECT VIDEO TITLE TO BE DELETED
S205
IMPORTANT TITLE ?
NO
YES
S206
SAVE SELECTED TITLE TO SERVER VIA NETWORK
S207
DELETE TITLE
END OF PREPARATION FOR RECORDING

FIG. 5

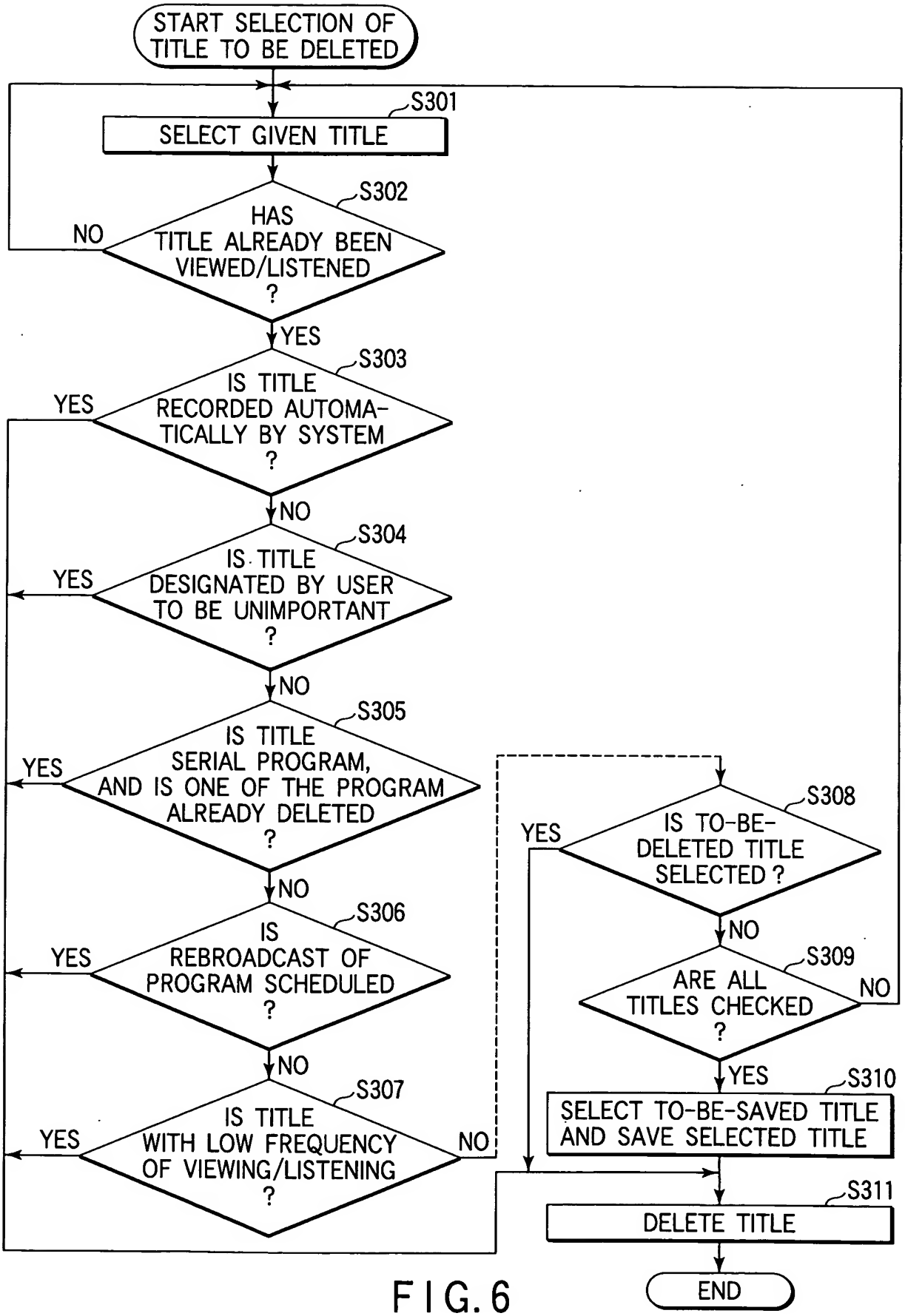

START SELECTION OF TITLE TO BE DELETED
S301
SELECT GIVEN TITLE
S302
HAS TITLE ALREADY BEEN VIEWED/LISTENED ?
NO
YES
S303
IS TITLE RECORDED AUTOMA-TICALLY BY SYSTEM ?
YES
NO
S304
IS TITLE DESIGNATED BY USER TO BE UNIMPORTANT ?
YES
NO
S305
IS TITLE SERIAL PROGRAM, AND IS ONE OF THE PROGRAM ALREADY DELETED ?
YES
NO
S306
IS REBROADCAST OF PROGRAM SCHEDULED ?
YES
NO
S307
IS TITLE WITH LOW FREQUENCY OF VIEWING/LISTENING ?
YES
NO
S308
IS TO-BE-DELETED TITLE SELECTED ?
YES
NO
S309
ARE ALL TITLES CHECKED ?
NO
YES
S310
SELECT TO-BE-SAVED TITLE AND SAVE SELECTED TITLE
S311
DELETE TITLE
END

FIG. 6

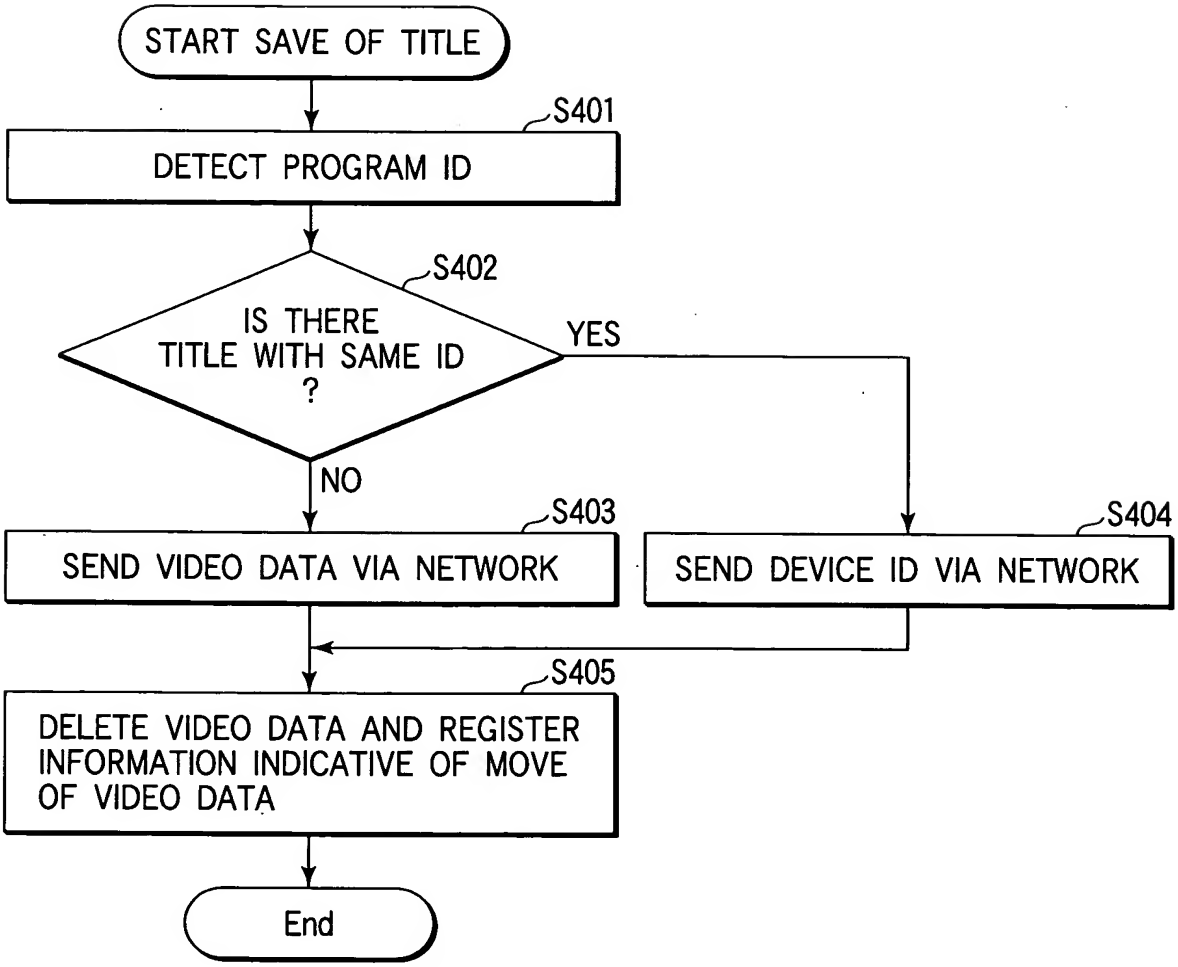

START SAVE OF TITLE
S401
DETECT PROGRAM ID
S402
IS THERE TITLE WITH SAME ID ?
YES
NO
S403
SEND VIDEO DATA VIA NETWORK
S404
SEND DEVICE ID VIA NETWORK
S405
DELETE VIDEO DATA AND REGISTER INFORMATION INDICATIVE OF MOVE OF VIDEO DATA
End

FIG. 7

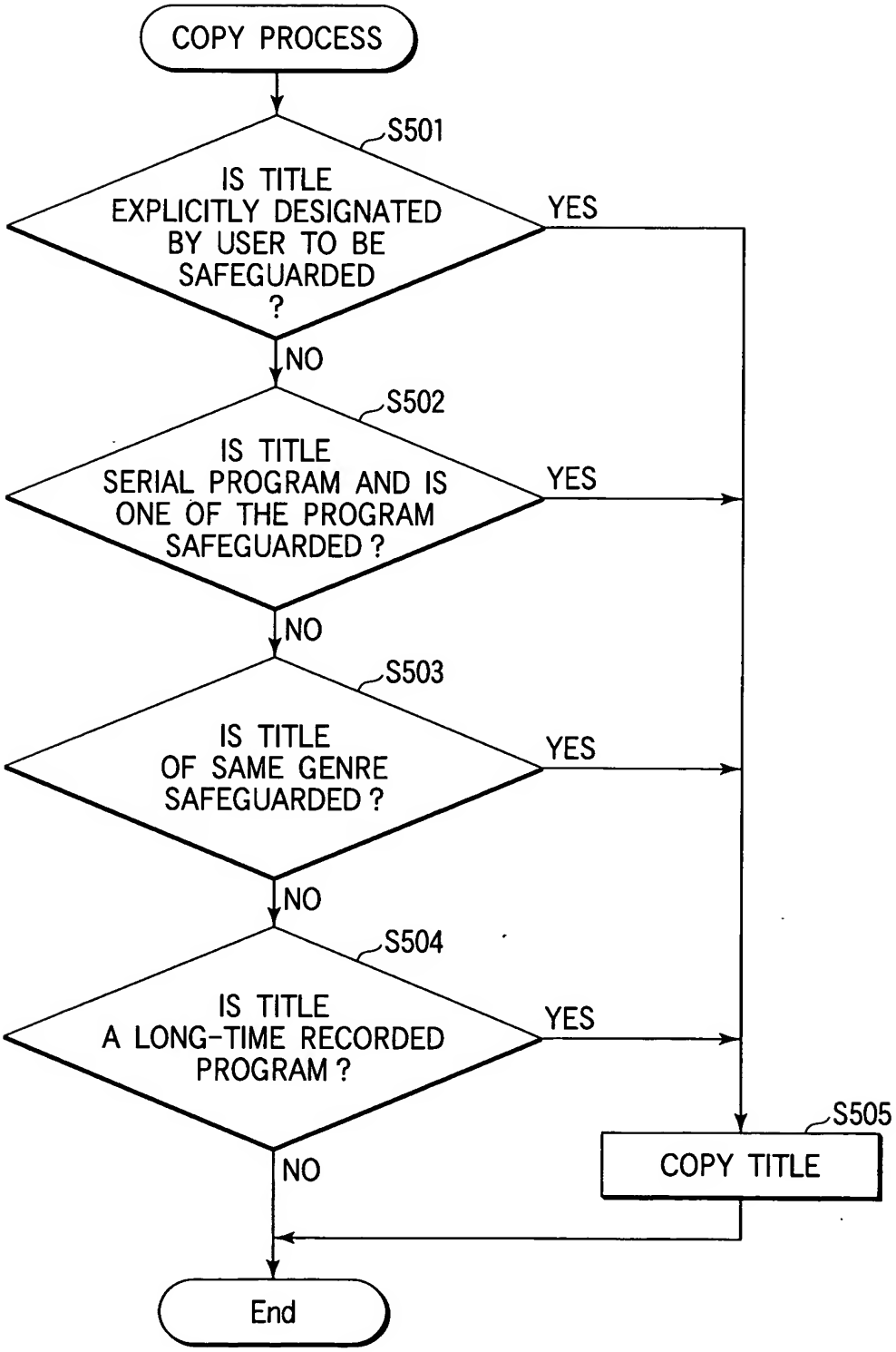

COPY PROCESS
S501
IS TITLE EXPLICITLY DESIGNATED BY USER TO BE SAFEGUARDED ?
YES
NO
S502
IS TITLE SERIAL PROGRAM AND IS ONE OF THE PROGRAM SAFEGUARDED ?
YES
NO
S503
IS TITLE OF SAME GENRE SAFEGUARDED ?
YES
NO
S504
IS TITLE A LONG-TIME RECORDED PROGRAM ?
YES
NO
S505
COPY TITLE
End

FIG. 8

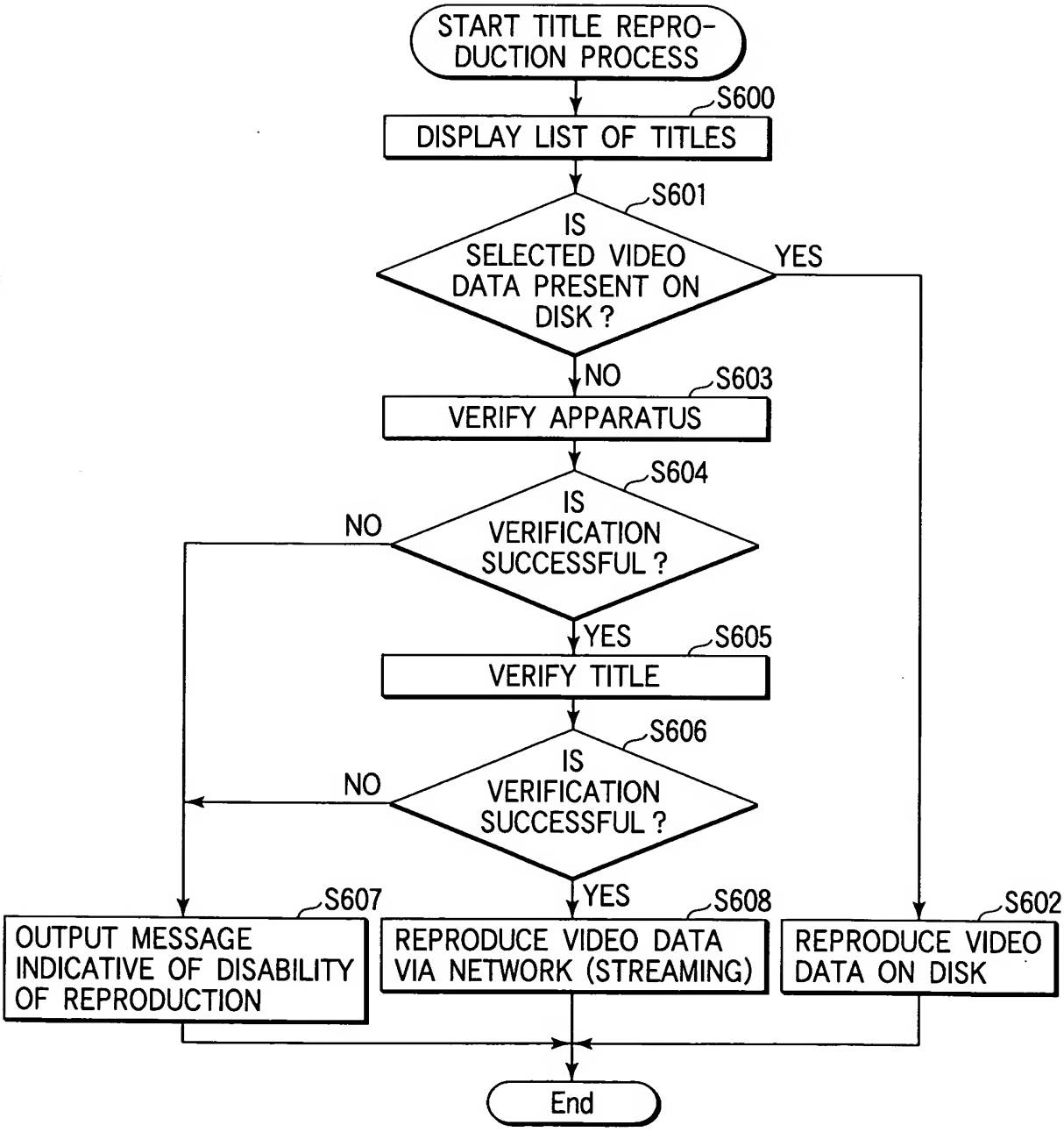

START TITLE REPRO-DUCTION PROCESS
S600
DISPLAY LIST OF TITLES
S601
IS SELECTED VIDEO DATA PRESENT ON DISK ?
YES
NO
S603
VERIFY APPARATUS
S604
IS VERIFICATION SUCCESSFUL ?
NO
YES
S605
VERIFY TITLE
S606
IS VERIFICATION SUCCESSFUL ?
NO
YES
S607
OUTPUT MESSAGE INDICATIVE OF DISABILITY OF REPRODUCTION
S608
REPRODUCE VIDEO DATA VIA NETWORK (STREAMING)
S602
REPRODUCE VIDEO DATA ON DISK
End

FIG. 9